**Domains:**

All Domains follow the standard scheme of: (table prefix)-DomainName(Optional Suffix)

**LocationAddress**

**Type:** varchar(100)

**Purpose:** Stores the physical address of a location that a travelling exhibit will visit.

**WorkCharID**

**Type**: varchar(10)

**Purpose**: This domain is used to store the character identifier of the primary key for museum works/items.

**WorkNumID**

**Type**: bigint

**Purpose**: This domain is used to store the numeric identifier of the primary key for museum works/items.

**DatabaseEntryLocationAddress**

**Type:** varchar(100)

**Purpose:** This domain is used to store the physical address of where a work was first entered into the database.

**DatabaseEntryLocation**

**Type**: varchar(60)

**Purpose:** This domain is used to store the location (one of the five museums) of where the museum work/item was first introduced into the maximum capacitydatabase. This is both used as a locationstamp and as a part of the primary key for a work to prevent the collision of keys if two museums submit the same alphanumeric primary key.

**WorkDescription**

**Type**: Text

**Purpose**: This domain is used to store a description of a museum item/work that is stored in the works table.

**WorkPhysicalProperty**

**Type**: varchar(30)

**Purpose**: This domain is used to sort museum items/works by storing the physical shape/style, such whether they contain moving parts.

**WorkClassification**

**Type**: varchar(30)

**Purpose**: This domain is used to sort museum items/works that share the same physical properties by classifying them into more specific object characteristics.

**WorkCreationDate**

**Type:** date

**Purpose**: This domain is used to store the date at which a museum work was created by the original author.

**WorkCreator**

**Type**: varchar(50)

**Purpose**: This domain is used to store the name of the original author/creator of a museum work

**WorkMedium**

**Type**: varchar(30)

**Purpose**: This domain is used to store a type of physical medium that a museum work is made of.

**LocationName**

**Type**: varchar(30)

**Purpose**: This domain is used to store the name of a location that exists within one of the five museums.

**MuseumName**

**Type**: varchar(50)

**Purpose**: This domain is used to store the name of a museum, which is used to both refer to the database entry location and to differentiate exhibits or works that share the same primary key.

**MuseumLocation**

**Type:** varchar(100)

**Purpose**: This domain is used to store the address of a museum.

**WorkInsureValue**

**Type:** float

**Purpose**: This domain stores the insurance value of a particular museum work/item in the case that it is stolen or destroyed.

**WorkTravelInsureValue**

**Type:** float

**Purpose**: This domain stores the insurance value of a particular museum work/item while it is traveling for the case in which it may be stolen or destroyed.

**OwnerName**

**Type**: varchar(50)

**Purpose**: This domain stores the name of a person or organization who does or has owned a work in the museum database.

**OwnerEmail**

**Type**: varchar(80)

**Purpose**: This domain stores the contact email of a person or organization who does or has owned a work in the museum database.

**OwnershipStartDate**

**Type**: timestamp

**Purpose**: This domain stores the initial time in which a museum work came into the possession of a certain person or organization.

**OwnershipEndDate**

**Type:** timestamp

**Purpose:** This domain stores the final time in which a museum work was in the possession of a certain person or organization.

**LocationName**

**Type:** varchar(80)

**Purpose:** Stores the name of a location in the real world, possibly the name of a gallery in the museum, or the name of a location that a traveling exhibition visits.

**LocationSuggestedCapacity**

**Type:** int

**Purpose:** Stores either the upper or lower bound of the suggested amount of museum's works that a certain location can hold

**LocationWidth**

**Type:** float

**Purpose:** Stores the width of a location in a museum in meters.

**LocationLength**

**Type**: float

**Purpose**: Stores the length of a location in a museum in meters.

**WorkArrivalTime**

**Type**: timestamp

**Purpose**: This domain is responsible for storing the date and time that a particular museum work arrived at a location

**WorkDepartureTime**

**Type**: timestamp

**Purpose:** This domain is responsible for storing the date and time that a particular museum work departed from a location

**ExhibitName**

**Type**: varchar(150)

**Purpose**: This domain stores the names of the exhibits that the museum’s host inside their own buildings or send abroad.

**ExhibitDescription**

**Type**: text

**Purpose**: Describes to a museum curator and to the public what the exhibit is about.

**ExhibitStartDate**

**Type:** timestamp

**Purpose**: This domain stores the starting date of an exhibition

**ExhibitEndDate**

**Type**: timestamp

**Purpose**: This domain stores the ending date of an exhibition.

**TransactionType**

**Type**: varchar(100)

**Purpose**: This domain stores a possible transaction type that might occur to the museum, including selling a work, or changing its location.

**TransactionTime**

**Type:** timestamp

**Purpose**: This domain stores the time and date at which a specific transaction involving a museum work took place.

**WorkBorrowable**

**Type**: Boolean

**Purpose**: This domain is used to indicate whether a specific work, if not owned by the museum, is capable of being borrowed to be used in an exhibition.

**SecurityName**

**Type**: varchar(100)

**Purpose**: This domain is used to indicate the name of the head of security for a traveling exhibition.

**ExhibitDepartureDate**

**Type**: timestamp

**Purpose**: This domain stores the date and time the items of the traveling exhibition departed from a location.

**DestinationPhone**

**Type**: bigint

**Purpose**: This domain stores the phone number of the location that is a recipient of a traveling exhibition

**ExhibitArrivalDate**

**Type**: timestamp

**Purpose**: This domain stores the time and date that an exhibit arrives at a certain location

**SponsorName**

**Type**: varchar(100)

**Purpose:** This domain stores the name of a person or organization who is sponsoring a travelling exhibition

**SponsorAmount**

**Type**: float

**Purpose**: This domain stores the amount of money that a person or organization has paid to sponsor a traveling exhibition.

**InsureStartDate**

**Type:** timestamp

**Purpose**: Stores the initial date at which a work was appraised and given an insurance value.

**InsureEndDate**

**Type**: timestamp

**Purpose:** Stores the last date at which a work held a certain insurance value before something changed

**Keyword**

**Type**: varchar(60)

**Purpose**: This domain stores a specific keyword that a work may have as a characteristic, to help categorize works and to plan exhibitions.

**Tables:**

**Works**

Purpose: This table stores the non-temporal information of works/items that are in the museum database, whether they belong to one of the museums or someone else.

Attributes:

wor-WorkCharID: Stores the character identifier of the museum work.

Constraints: Cannot be null, as it is part of the primary key of a work

wor-WorkNumID: Stores the numerical identifier of the museum work.

Constraints: Cannot be null as it is part of the primary key, > 0.

wor-DatabaseEntrylocation: Stores the location stamp of where the work originally entered the database.

Constraints: Cannot be null, as it is part of the primary key of a work.

wor-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

wor-WorkDescription: Describes the physical characteristics and context of the work.

Constraints: None

wor-WorkPhysicalProperty: Categorizes the work into a specific area based on its physical properties.

Constraints: None

wor-WorkClassification: Categorizes works with the same physical property into more specific areas.

Constraints: None

wor-WorkAuthor: The original creator of the museum work.

Constraints: None

wor-WorkCreationDate: The date that the work was originally created.

Constraints: None

wor-WorkBorrowable: indicates whether the owner of the work has allowed the work to potentially be borrowed.

Constraints: None

**Primary Key:** (wor-WorkCharID, wor-WorkNumID, wor-DatabaseEntryLocation, wor-DatabaseEntryLocationAddress)

**Foreign Key:** (wor-DatabaseEntryLocation, wor-DatabaseEntryLocationAddress) references Museums.

**Works\_Mediums**

Purpose**:** This table stores the non-temporal information as to the materials that comprise each museum item/work from the works table.

Attributes:

wme-WorkCharID: references the character identifier of a work.

Constraints: must exist in the works table.

wme-WorkNumID: references the numerical identifier of a work.

Constraints: Must exist in the works table.

wme-DatabaseEntryLocation: references the original location where the work was entered in the database.

Constraints: Cannot be null.

wme-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

wme-WorkMedium: the physical material that a specific museum work is made out of.

Constraints: not null, as the entry is pointless if there is no material.

**Foreign Key:** (wme-WorkCharID, wme-WorkNumID, wme-DatabaseEntryLocation, wme-DatabaseEntryLocationAddress) references Works.

**Locations**

Purpose: This table stores the non-temporal information about the galleries and other rooms inside the museums which are now part of the company.

Attributes:

loc-LocationName: Name of the location in a museum.

Constraints: Cannot be null due to it being part of the primary key.

loc-MuseumName: Name of the museum that the location occurs in

Constraints: Cannot be null due to it being part of the primary key.

loc-LocationName: Name address of the museum that the location is in.

Constraints: Cannot be null due to it being part of the primary key.

loc-LocationSuggestedCapacityMin: suggested minimum capacity of a room for works.

Constraints: Must be greater than or equal to zero since you cannot have negative items.

loc-LocationSuggestedCapacityMax: suggested wtr-WorkNumID: referencesConstraints: None. of a room for works.

Constraints: Must be greater than zero since you cannot have negative works

loc-LocationWidth: physical width of the location measured in metres.

Constraints: Must be greater than zero since you cannot have negative lengths.

loc-LocationLength: Physical length of the location measured in metres.

Constraint: Must be greater than zero since you cannot have negative lengths

**Primary Key** (loc-LocationName, loc-MuseumName, loc-MuseumLocation)

**Foreign Key** (loc-MuseumName, loc-MuseumLocation) references Museums

**Works\_Locations**

Purpose: This table stores temporal information about the past and current places that a museum item/work was placed for insurance and tracking purposes.

Attributes:

wol-WorkCharID: references the character identifier of a museum work.

Constraints: Part of primary key so it cannot be null.

wol-WorkNumID: references the numerical identifier of a museum work.

Constraints: Part of primary key so it cannot be null.

wol-DatabaseEntryLocation: references the location in which a museum work was first entered into the system.

Constraints: Part of primary key so it cannot be null.

wol-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

wol-LocationName: Name of the location that the museum work was stored or is being stored in.

Constraints: Part of primary key so it cannot be null.

wol-MuseumName: Name of the museum that has the location where the work was or is being stored in.

Constraints: Part of primary key so it cannot be null.

wol-MuseumLocation: Physical Address of the location where the work was or is being stored in.

Constraints: Part of primary key so it cannot be null.

wol-WorkArrivalTime: Stores the time and date that a museum work arrived at a specific location

Constraints: Part of primary key so it cannot be null.

wol-WorkDepartureTime: Stores the time and date that a museum work departed from a specific location

Constraints: None.

**Primary Key**(wol-WorkCharID, wol-WorkNumID, wol-DatabaseEntryLocation, wor-DatabaseEntryLocationAddress, wol-LocationName, wol-MuseumName, wol-MuseumLocation, wol-WorkArrivalTime)

**Foreign Key**(wol-WorkCharID, wol-WorkNumID, wol-DatabaseEntryLocation, wol-DatabaseEntryLocationAddress) references Works.

**Foreign Key**(wol-LocationName, wol-MuseumName, wol-MuseumLocation) references Locations.

**Museums**

Purpose: This table stores non-temporal information about the five museums which are now part of the company.

Attributes:

mus-MuseumName: Stores the name of one of the five museums in the database.

Constraints: Cannot be null as it is part of the primary key.

mus-MuseumLocation: Stores the physical address of one of the five museums in the database.

Constraints: Cannot be null as it is part of a primary key.

**Primary Key**(mus-MuseumName, mus-MuseumLocation)

**Doors**

Purpose: This table stores non-temporal information about the pathways between rooms in each of the five museums, so as to assist with exhibit planning and the moving of items.

Attributes:

dor-LocationNameOrigin: Name of a location in one of the five museums that is the start of the connection between two rooms.

Constraints: Cannot be null as it is part of the primary key.

dor-LocationNameEnd: Name of a location in one of the five museums that is the end of the connection between two rooms.

Constraints: Cannot be null as it is part of the primary key.

dor-MuseumName: Name of the museum in which the connection between the two locations exists.

Constraints: Cannot be null as it is part of the primary key.

dor-MuseumLocation: Physical address of the museum in which the connection between two locations exists.

Constraints: Cannot be null as it is part of the primary key.

**Primary Key**(lcn-LocationNameOrigin, lcn-LocationNameEnd, lcn-MuseumName, lcn-MuseumLocation)

**Foreign Key**(lcn-LocationNameOrigin, lcn-MuseumName, lcn-MuseumLocation) references Locations.

**Exhibitions**

Purpose: This table stores temporal information about exhibits are, will be, or have been displayed inside one of the five museums.

Attributes:

exh-ExhibitName: Stores the name of an exhibit that is either displayed in one of the five museums or as a traveling exhibition abroad.

Constraints: Cannot be null as it is part of the primary key.

exh-ExhibitDescription: Stores the details and slogan of an exhibit.

Constraints: None.

exh-ExhibitStartDate: The start date that an exhibition is displayed to the public.

Constraints: Cannot be null as it is part of the primary key.

exh-ExhibitEndDate: The end date that an exhibition is displayed to the public.

Constraints: None.

exh-MuseumName: The name of the museum that the Exhibit belongs to.

Constraints: Cannot be null as it is part of the primary key.

exh-MuseumLocation: The physical address of the museum that the exhibition belongs to.

Constraints: Cannot be null as it is part of the primary key.

**Primary Key**(exh-ExhibitName, exh-ExhibitStartDate, exh-MuseumName, exh-MuseumLocation)

**Foreign Key**(exh-MuseumName, exh-MuseumLocation) references Museums

**Exhibitions\_Locations**

Purpose: This table stores temporal information about the locations that exhibits are, have, or will be occupying. \*\*\* need to be connected by a door if an exhibition will be held in more than one location.

Attributes:

elo-ExhibitName: The name of an exhibit in a specific location in one of the five museums.

Constraints: Cannot be null as it is part of the primary key.

elo-ExhibitStartDate: The start date that the exhibit was displayed at a certain location

Constraints: Cannot be null as it is part of the primary key.

elo-LocationName:Name of a location within one of the five museums that an exhibit is displayed.

Constraints: Cannot be null as it is part of the primary key.

elo-MuseumName: Name of the museum with the location displaying an exhibition.

Constraints: Cannot be null as it is part of the primary key.

elo-MuseumLocation: Physical address of the museum that has the exhibit on display

Constraints: Cannot be null as it is part of the primary key.

**Primary Key**(elo-ExhibitName, elo-ExhibitStartDate, elo-LocationName, elo-MuseumName, elo-MuseumLocation)

**Foreign Key**(elo-ExhibitName, elo-ExhibitStartDate) references Exhibitions.

**Foreign Key**(elo-LocationName, elo-MuseumName, elo-MuseumLocation) references Locations.

**Exhibitions\_Works**

Purpose: This table stores non-temporal information about the works that have been, are, or will be part of a specific exhibit.

Attributes:

exw-ExhibitName: Name of an exhibit that contains or has contained a specific work.

Constraints: Part of the primary key so it cannot be null.

exw-ExhibitStartDate: Start date of an exhibit that contains or has contained a specific work.

Constraints: Part of the primary key so it cannot be null.

exw-MuseumName: Name of the museum that the exhibit was contained in.

Constraints: Part of the primary key so it cannot be null.

exw-MuseumLocation: Physical address of the museum that the exhibition was contained in.

Constraints: Part of the primary key so it cannot be null.

exw-WorkCharID: references the character identifier of a work.

Constraints: Part of the primary key so it cannot be null.

exw-WorkNumID: references the numerical identifier of a work.

Constraints: Part of the primary key so it cannot be null.

exw-DatabaseEntryLocation: references the location where the museum work was first added to the database.

Constraints: Part of the primary key so it cannot be null.

exw-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

**Primary Key**(exw-ExhibitName, exw-ExhibitStartDate, exw-MuseumName, exw-WorkCharID, exw-WorkNumID, exw-DatabaseEntryLocation)

**Foreign Key**(exw-ExhibitName, exw-ExhibitStartDate, exw-MuseumName) references Exhibitions.

**Foreign Key**(exw-WorkCharID, exw-WorkNumID, exw-DatabaseEntryLocation, exw-DatabaseEntryLocationAddress) references Works.

**Owners**

Purpose: This table stores non-temporal information about the organizations or people currently possess or have owned a work/item in the museum’s database.

Attributes:

own-OwnerName: Stores the name of a person or organization who owns or has owned a work in the Works table.

Constraints: Part of the primary key so it cannot be null.

own-OwnerEmail: Stores the email address of a person or organization who owns or has owned a work in the Works table.

Constraints: Part of the primary key so it cannot be null.

**Primary Key**(own-OwnerName, own-OwnerEmail)

**Works\_Owners**

Purpose: This table stores temporal information about the organizations or people who have owned or currently own a specific museum work/item in the museum database.

Attributes:

won-WorkCharID: References the character identifier of a museum work.

Constraints: Part of the primary key so it cannot be null.

won-WorkNumID: References the numerical identifier of a museum work.

Constraints: Part of the primary key so it cannot be null.

won-DatabaseEntryLocation: stores the name of the museum that first introduced the work into the system

Constraints: Part of the primary key so it cannot be null.

won-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

won-OwnerName: The name of the person or organization who possesses the work at a given point in time.

Constraints: Part of the primary key so it cannot be null.

won-OwnerEmail: The email of the person or organization who possesses the work at a given point in time.

Constraints: Part of the primary key so it cannot be null.

won-OwnershipStartDate: The initial date that a work came into a person or organization’s possession.

Constraints: Part of the primary key so it cannot be null.

won-OwnershipEndDate: The last date that a work was in a people possession.

Constraints: None.

**Primary Key**(won-WorkCharID, won-WorkNumID, won-DatabaseEntryLocation, won-DatabaseEntryLocationAddress, won-OwnerName, won-OwnerEmail, won-OwnershipStartDate)

**Foreign Key**(won-WorkCharID, won-WorkNumID, won-DatabaseEntryLocation, won-DatabaseEntryLocationAddress) references Works

**Foreign Key**(won-OwnerName, won-OwnerEmail) references Owners.

**Works\_Transactions**

Purpose: This table stores temporal information about transactions involving items, such as loaning, borrowing, buying, and selling.

Attributes:

wtr-WorkCharID: references the character identifier of a museum work which was involved in the transaction.

Constraints: Part of the primary key so it cannot be null.

null. Must the numerical identifier of a museum work which was involved in the transaction.

Constraints: Part of the primary key so it cannot be null.

wtr-DatabaseEntryLocation: references the location that the museum work which was involved in the transaction initially entered the database.

Constraints: Part of the primary key so it cannot be null.

wtr-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

wtr-TransactionType: indicates the type of transaction to explain what happened to a specific museum work.

Constraints: Part of the primary key so it cannot be null.

wtr-TransactionTime: Indicates the time that the transaction took place.

Constraints: Part of the primary key so it cannot be null.

**Primary Key**(wtr-WorkCharID, wtr-WorkNumID, wtr-DatabaseEntryLocation, wtr-DatabaseEntryLocationAddress, wtr-TransactionTime)

**Foreign Key**(wtr-WorkCharID, wtr-WorkNumID, wtr-DatabaseEntryLocation, wtr-DatabaseEntryLocationAddress) references Works.

**Travelling\_Exhibitions**

Purpose: This table stores temporal information about exhibits that are sent abroad by one of the five museums.

Attributes:

tre-ExhibitName: Name of an exhibition that is sent to various locations (traveling).

Constraints: Part of the primary key so it cannot be null.

tre-MuseumName: Name of one of the five museums that is in charge of a travelling exhibition.

Constraints: Part of the primary key so it cannot be null.

tre-MuseumLocation: The address of one of the five museums that is in charge of a travelling exhibition.

tre-ExhibitStartDateOriginal: The original date at which an exhibition is displayed at a destination.

Constraints: Part of the primary key so it cannot be null. Must be greater than ExhibitDepartureDate due to travel time.

tre-ExhibitDepartureDate: The date the works departed from the original museum and were sent out to be displayed in a traveling exhibition.

Constraints: Part of the primary key so it cannot be null. Must be less than ExhibitStartDateOriginal because the works have to travel somewhere.

tre-Security: Name of the person in charge of security for the exhibit

Constraints: None.

**Primary Key**(tre-ExhibitName, tre-MuseumName, tre-MuseumLocation, tre-ExhibitStartDateOriginal, tre-ExhibitDepartureDate)

**Foreign Key**(tre-ExhibitName, tre-MuseumName, tre-MuseumLocation, tre-ExhibitStartDateOriginal) references Exhibits.

**Travelling\_Destinations**

Purpose: This table stores temporal information about the specific locations abroad that a traveling exhibition has visited.

Attributes:

ted-ExhibitName: The name of the travelling exhibit that is being displayed at a certain destination

Constraints: Part of the primary key so it cannot be null.

ted-MuseumName: Name of the original museum that is in charge of the exhibition.

Constraints: Part of the primary key so it cannot be null.

ted-MuseumLocation: Physical address of the museum that is in charge of the exhibition.

Constraints: Part of the primary key so it cannot be null.

ted-ExhibitStartDate: The initial date in which the traveling exhibition as a whole began being displayed to the public.

Constraints: Part of the primary key so it cannot be null.

ted-DestinationPhone: The phone number of the destination that the travelling exhibition is being displayed at.

Constraints: None.

ted-LocationName: The name of the location that the travelling exhibition is being displayed at.

Constraints: Part of the primary key so it cannot be null.

ted-LocationAddress: The physical address of the location that the travelling exhibition is being displayed at.

Constraints: Part of the primary key so it cannot be null.

ted-ExhibitArrivalDate: stores the initial date that the traveling exhibit was at that location.

Constraints: Part of the primary key so it cannot be null. Must be less than the ExhibitDepartureDate due to the fact that an exhibit must arrive before it can leave.

ted-ExhibitDepartureDate: The last date that the travelling exhibition was at a specific location.

Constraints: Part of the primary key so it cannot be win-WorkInsureValue. However be greater than ExhibitArrivalDate due to the fact that the exhibit has to arrive before it can leave.

**Primary Key**(ted-ExhibitName, ted-MuseumName, ted-MuseumLocation, tedExhibitStartDate, ted-LocationName, ted-LocationAddress, ted-ExhibitArrivalDate)

**Foreign Key**(ted-ExhibitName, ted-MuseumName, ted-MuseumLocation, tedExhibitStartDate) references Exhibits.

**Travelling\_Exhibition\_Sponsors**

Purpose: This table stores non-temporal information about the people or organizations who sponsor specific traveling exhibits.

Attributes:

spo-SponsorName: Holds the name of a person or organization sponsoring a travelling exhibition.

Constraints: Part of the primary key so it cannot be null.

spo-ExhibitName: The name of the travelling exhibit the sponsor is sponsoring.

Constraints: Part of the primary key so it cannot be null.

spo-MuseumName: The name of the museum that is responsible for the traveling exhibition that the person or organization is sponsoring.

Constraints: Part of the primary key so it cannot be null.

spo-MuseumLocation: The physical address of the museum that is responsible for the traveling that the person or organization is sponsoring.

Constraints: Part of the primary key so it cannot be null.

spo-ExhibitStartDate: The original starting date of the traveling exhibit that the person or organization is sponsoring.

Constraints: Part of the primary key so it cannot be null.

spo-SponsorAmount: The amount of money that the sponsor paid to sponsor the exhibit.

Constraints: None.

**Primary Key**(spo-SponsorName, spo-ExhibitName, spo-MuseumName, spo-MuseumLocation, spo-ExhibitStartDate)

**Foreign Key**(spo-ExhibitName, spo-MuseumName, spo-MuseumLocation, spo-ExhibitStartDate) references Exhibits.

**Themes**

Purpose: This table stores non-temporal information about keywords and concepts related to museum works/items that help in the organization and planning of future exhibitions.

Attributes:

wky-WorkCharID: stores the reference to the character identifier of a museum work.

Constraints: Cannot be null due to this attribute being part of the primary key of Works.

wky-WorkNumID: stores the reference to the numerical identifier

Constraints: Cannot be null due to this attribute being part of the primary key of Works.

wky-DatabaseEntryLocation: stores the reference to the location where the work initially entered the database.

Constraints: Part of the primary key for the works table so it cannot be null.

wky-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

wky-Keyword: stores the keyword that is linked to a particular work

Constraint: None.

**Foreign Key**(wky-WorkCharID, wky-WorkNumID, wky-DatabaseEntryLocation, wky-DatabaseEntryLocationAddress) references Works.

**Works\_Insurance**

Purpose: This table stores temporal information about the insurance value of a particular museum work/item, including its insurance value when traveling abroad. It shows the changes the item may experience over time.

Attributes:

win-WorkCharID: references the character identifier of a museum work.

Constraints: Part of the primary key so it cannot be null.

win-WorkNumID: References the numerical identifier of a museum work.

Constraints: Part of the primary key so it cannot be null.

win-DatabaseEntryLocation: references the location that the physical museum that originally introduced the museum work into the database.

Constraints: Part of the primary key so it cannot be null.

win-DatabaseEntryLocationAddress: references the physical address of the museum where the work first entered the system.

Constraints: Part of the primary key so it cannot be null.

win-WorkInsureValue: The insurance value that a work held at a particular point in time.

Constraints: Monetary insurance based so it must be greater than or equal to 0.

win-WorkTravelInsureValue: The insurance value that a work held at a particular point in time if it was traveling.

Constraints: Based on the assignment, by default is 1.1X the win-WorkInsureValue. However, can be changed if the database user wishes so.

win-InsureStartDate: The initial date that a work held a particular insurance value.

Constraints: Part of the primary key so it cannot be null.

win-InsureEndDate: The last date that a work held a particular insurance value.

Constraints: None.

**Primary Key**(win-WorkCharID, win-WorkNumID, win-DatabaseEntryLocation, win-DatabaseEntryLocationAddress, win-InsureStartDate)

(win-WorkCharID, win-WorkNumID, win-DatabaseEntryLocation, win-DatabaseEntryLocationAddress) references Works.

**Transaction\_References**

Purpose: This table stores non-temporal information about transaction types that may be used by the transactions table, to aid in automatic processing of transactions.

Attributes:

tty-TransactionType: Stores the type of transaction, used as an identifier to automate actions on items in the database.